Carl B Schroeder

List of Publications by Year
in descending order

277 papers	13,742 citations	53794 45 h-index	21540 114 g-index
281 all docs	281 docs citations	281 times ranked	3229 citing authors

#	Article	IF	Citations
1	A new platform for ultra-high dose rate radiobiological research using the BELLA PW laser proton beamline. Scientific Reports, 2022, 12, 1484.	3.3	23
2	Stable electron beam propagation in a plasma column. Physics of Plasmas, 2022, 29, .	1.9	8
3	Radial density profile and stability of capillary discharge plasma waveguides of lengths up to 40 cm. High Power Laser Science and Engineering, 2021, 9, .	4.6	8
4	Creation of an axially uniform plasma channel in a laser-assisted capillary discharge. Physics of Plasmas, 2021, 28, .	1.9	4
5	Adiabatic matching of particle bunches in a plasma-based accelerator in the presence of ion motion. Physics of Plasmas, 2021, 28, 053102.	1.9	5
6	Accuracy of the time-averaged ponderomotive approximation for laser-plasma accelerator modeling. Physics of Plasmas, 2021, 28, 063105.	1.9	5
7	Free electron lasers driven by plasma accelerators: status and near-term prospects. High Power Laser Science and Engineering, 2021, 9, .	4.6	13
8	Effect of nozzle curvature on supersonic gas jets used in laserâ€“plasma acceleration. Physics of Plasmas, 2021, 28, .	1.9	3
9	Cryogenically formed discharge waveguide. Physical Review Accelerators and Beams, 2021, 24, .	1.6	2
10	THz-driven split ring resonator undulator. Physical Review Accelerators and Beams, 2021, 24, .	1.6	4
11	Emittance preserving thin film plasma mirrors for GeV scale laser plasma accelerators. Physical Review Accelerators and Beams, 2021, 24, .	1.6	4
12	Reduced bandwidth Compton photons from a laser-plasma accelerator using tailored plasma channels. Physics of Plasmas, 2021, 28, 123104.	1.9	1
13	Modeling of emittance growth due to Coulomb collisions in plasma-based accelerators. Physics of Plasmas, 2020, 27, 113105.	1.9	9
14	Laser-heated capillary discharge waveguides as tunable structures for laser-plasma acceleration. Physics of Plasmas, 2020, 27, .	1.9	9
15	Laser-heated capillary discharge plasma waveguides for electron acceleration to 8 GeV. Physics of Plasmas, 2020, 27, 053102.	1.9	21
16	A compact, high resolution energy, and emittance diagnostic for electron beams using active plasma lenses. Applied Physics Letters, 2020, 116, .	3.3	6
17	Plasma channel formation in the knife-like focus of laser beam. Journal of Plasma Physics, 2020, 86, .	2.1	3
18	Acceleration of high charge ion beams with achromatic divergence by petawatt laser pulses. Physical Review Accelerators and Beams, 2020, 23, .	1.6	21

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19	High-quality positron acceleration in beam-driven plasma accelerators. Physical Review Accelerators and Beams, 2020, 23, .	1.6	20
20	EuPRAXIA Conceptual Design Report. European Physical Journal: Special Topics, 2020, 229, 3675-4284.	2.6	64
21	Ion acceleration in laser generated megatesla magnetic vortex. Physics of Plasmas, 2019, 26, .	1.9	32
22	EuPRAXIA â€“ a compact, cost-efficient particle and radiation source. AIP Conference Proceedings, 2019, , .	0.4	7
23	Control of transverse wakefields via phase-matched laser modes in parabolic plasma channels. Physics of Plasmas, 2019, 26, 013107.	1.9	3
24	Petawatt Laser Guiding and Electron Beam Acceleration to 8ÂGeV in a Laser-Heated Capillary Discharge Waveguide. Physical Review Letters, 2019, 122, 084801.	7.8	557
25	High-sensitivity plasma density retrieval in a common-path second-harmonic interferometer through simultaneous group and phase velocity measurement. Physics of Plasmas, 2019, 26, 023106.	1.9	10
26	Status of the Horizon 2020 EuPRAXIA conceptual design study*. Journal of Physics: Conference Series, 2019, 1350, 012059.	0.4	11
27	Chromatic matching in a plasma undulator. Physics of Plasmas, 2019, 26, 113102.	1.9	1
28	Multiple colliding laser pulses as a basis for studying high-field high-energy physics. Physical Review A, 2019, 100, .	2.5	15
29	Laser and electron deflection from transverse asymmetries in laser-plasma accelerators. Physical Review E, 2019, 100, 063208.	2.1	10
30	Emittance growth due to misalignment in multistage laser-plasma accelerators. Physical Review Accelerators and Beams, 2019, 22, .	1.6	11
31	Pulse front tilt steering in laser plasma accelerators. Physical Review Accelerators and Beams, 2019, 22, .	1.6	9
32	Flexible x-ray source with tunable polarization and orbital angular momentum from Hermite-Gaussian laser modes driven plasma channel wakefield. Physical Review Accelerators and Beams, 2019, 22, .	1.6	5
33	Positron transport and acceleration in beam-driven plasma wakefield accelerators using plasma columns. Physical Review Accelerators and Beams, 2019, 22, .	1.6	31
34	THz-driven surface plasmon undulator as a compact highly directional narrow band incoherent x-ray source. Physical Review Accelerators and Beams, 2019, 22, .	1.6	4
35	Update on BELLA Centerâ€™s Free-Electron Laser driven by a Laser-Plasma Accelerator. , 2019, , .		0
36	Plasma Channel Undulator for Narrow-Bandwidth X-Ray Generation. Springer Proceedings in Physics, 2018, , 163-166.	0.2	0

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37	MHD Simulation of Various Cross-Section Capillary Discharges. Springer Proceedings in Physics, 2018, , 53-57.	0.2	0
38	Control of quasi-monoenergetic electron beams from laser-plasma accelerators with adjustable shock density profile. Physics of Plasmas, 2018, 25, .	1.9	29
39	Observation of the Self-Modulation Instability via Time-Resolved Measurements. Physical Review Letters, 2018, 120, 144802.	7.8	11
40	Multistage Coupling of Laser-Wakefield Accelerators with Curved Plasma Channels. Physical Review Letters, 2018, 120, 154801.	7.8	63
41	Filtering higher-order laser modes using leaky plasma channels. Physics of Plasmas, 2018, 25, .	1.9	4
42	Accurate modeling of the hose instability in plasma wakefield accelerators. Physics of Plasmas, 2018, 25, 056703.	1.9	12
43	Parametric emittance measurements of electron beams produced by a laser plasma accelerator. Plasma Physics and Controlled Fusion, 2018, 60, 054015.	2.1	4
44	Comparative study of active plasma lenses in high-quality electron accelerator transport lines. Physics of Plasmas, 2018, 25, .	1.9	17
45	An accurate and efficient laser-envelope solver for the modeling of laser-plasma accelerators. Plasma Physics and Controlled Fusion, 2018, 60, 014002.	2.1	27
46	Characterization of self-modulated electron bunches in an argon plasma. Journal of Physics: Conference Series, 2018, 1067, 042012.	0.4	2
47	Laser-Plasma - Accelerator-Driven Quasi - Monoenergetic MeV Thomson Photon Source and Laser Facility. , 2018, , .		1
48	Transverse Wakefield Control via Phase-Matched Laser Modes in Plasma Channels. , 2018, , .		0
49	INF&RNO Modeling of 10 GeV-Class Electron Beams from a Laser-Plasma Accelerator Driven by the BELLA Laser. , 2018, , .		1
50	Suppression of Beam Hosing in Plasma Accelerators with Ion Motion. Physical Review Letters, 2018, 121, 264802.	7.8	24
51	Transverse Space-Charge Field-Induced Plasma Dynamics for Ultraintense Electron-Beam Characterization. Physical Review X, 2018, 8, .	8.9	5
52	Density characterization of discharged gas-filled capillaries through common-path two-color spectral-domain interferometry. Optics Letters, 2018, 43, 2776.	3.3	12
53	Direct measurement of focusing fields in active plasma lenses. Physical Review Accelerators and Beams, 2018, 21, .	1.6	14
54	Simulations of plasma channel formation by knife-like nanosecond laser beam. Keldysh Institute Preprints, 2018, , 1-39.	0.2	1

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55	Free-electron lasers driven by laser plasma accelerators. AIP Conference Proceedings, 2017, , .	0.4	16
56	Plasma control and diagnostics for 10 GeV electron beams on BELLA. AIP Conference Proceedings, 2017, , .	0.4	3
57	Laser-assisted capillary discharge for enhanced guiding of tightly focused laser pulses at low densities. Proceedings of SPIE, 2017, , .	0.8	0
58	Laser mode control using leaky plasma channels. AIP Conference Proceedings, 2017, , .	0.4	1
59	Optimization of the electron beam properties from intense laser pulses interacting with structured gas jets. Proceedings of SPIE, 2017, , .	0.8	0
60	Transport and phase-space manipulation of laser-plasma accelerated electron beams using active plasma lenses. AIP Conference Proceedings, 2017, , .	0.4	4
61	Laser beam coupling with capillary discharge plasma for laser wakefield acceleration applications. Physics of Plasmas, 2017, 24, .	1.9	24
62	Measured Emittance Dependence on the Injection Method in Laser Plasma Accelerators. Physical Review Letters, 2017, 119, 104801.	7.8	46
63	Horizon 2020 EuPRAXIA design study. Journal of Physics: Conference Series, 2017, 874, 012029.	0.4	60
64	Narrow bandwidth Thomson photon source and diagnostic development using laser-plasma accelerators. AIP Conference Proceedings, 2017, , .	0.4	0
65	Saturation of the Hosing Instability in Quasilinear Plasma Accelerators. Physical Review Letters, 2017, 119, 244801.	7.8	24
66	Strong field electrodynamics of a thin foil. AIP Conference Proceedings, 2017, , .	0.4	0
67	Efficient modeling of laser-plasma accelerator staging experiments using INF&RNO. AIP Conference Proceedings, 2017, , .	0.4	8
68	Two-color laser high-harmonic generation in cavitated plasma wakefields. AIP Conference Proceedings, 2017, , .	0.4	0
69	Plasma channel undulator excited by high-order laser modes. Scientific Reports, 2017, 7, 16884.	3.3	14
70	Staging of independent laser plasma accelerators. AIP Conference Proceedings, 2017, , .	0.4	1
71	On production and asymmetric focusing of flat electron beams using rectangular capillary discharge plasmas. Physics of Plasmas, 2017, 24, 123120.	1.9	6
72	Plasma equilibrium inside various cross-section capillary discharges. Physics of Plasmas, 2017, 24, .	1.9	14

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73	Nonuniform discharge currents in active plasma lenses. Physical Review Accelerators and Beams, 2017, 20, .	1.6	40
74	Control of tunable, monoenergetic laser-plasma-accelerated electron beams using a shock-induced density downramp injector. Physical Review Accelerators and Beams, 2017, 20, .	1.6	42
75	Emittance preservation in plasma-based accelerators with ion motion. Physical Review Accelerators and Beams, 2017, 20, .	1.6	26
76	Beam emittance conservation in multiple consecutive laser-plasma accelerator stages. AIP Conference Proceedings, 2016, , .	0.4	0
77	Measurement of the laser pulse group velocity in plasma waveguides. AIP Conference Proceedings, 2016, , .	0.4	0
78	Laser-driven helium ion acceleration for hadron therapy. AIP Conference Proceedings, 2016, , .	0.4	1
79	Efficiency considerations for high-energy physics applications of laser-plasma accelerators. AIP Conference Proceedings, 2016, , .	0.4	7
80	Acceleration and evolution of a hollow electron beam in wakefields driven by a Laguerre-Gaussian laser pulse. Physics of Plasmas, 2016, 23, .	1.9	42
81	Dynamics of boundary layer electrons around a laser wakefield bubble. Physics of Plasmas, 2016, 23, .	1.9	9
82	Staged acceleration experiments. AIP Conference Proceedings, 2016, , .	0.4	0
83	Plasma channel diagnostics for capillary discharges. AIP Conference Proceedings, 2016, , .	0.4	0
84	Radiation pressure acceleration: The factors limiting maximum attainable ion energy. Physics of Plasmas, 2016, 23, .	1.9	48
85	Staging of laser-plasma accelerators. Physics of Plasmas, 2016, 23, 056705.	1.9	22
86	Compact disposal of high-energy electron beams using passive or laser-driven plasma decelerating stage. AIP Conference Proceedings, 2016, , .	0.4	0
87	Ultra-low emittance electron beams from two-color laser-ionization injection. AIP Conference Proceedings, 2016, , .	0.4	6
88	Laser technology for Thomson MeV photon sources based on laser-plasma accelerators. AIP Conference Proceedings, 2016, , .	0.4	1
89	Plasma wakefield excitation by incoherent laser pulses: A path towards high-average power laser-plasma accelerators. AIP Conference Proceedings, 2016, , .	0.4	1
90	Megawatt level surface high-harmonic generation from thin, replenishing, solid tapes. AIP Conference Proceedings, 2016, , .	0.4	0

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91	High energy, low energy spread electron bunches produced via colliding pulse injection. AIP Conference Proceedings, 2016, , .	0.4	2
92	Electromagnetic cascade: High-energy electron beam collisions with intense laser pulses. AIP Conference Proceedings, 2016, , .	0.4	1
93	Multistage coupling of independent laser-plasma accelerators. Nature, 2016, 530, 190-193.	27.8	250
94	Controlling the spectral shape of nonlinear Thomson scattering with proper laser chirping. Physical Review Accelerators and Beams, 2016, 19, .	1.6	43
95	Plasma-driven ultrashort bunch diagnostics. Physical Review Accelerators and Beams, 2016, 19, .	1.6	6
96	Tunable polarization plasma channel undulator for narrow bandwidth photon emission. Physical Review Accelerators and Beams, 2016, 19, .	1.6	19
97	Reply to â€œComment on â€˜Controlling the spectral shape of nonlinear Thomson scattering with proper laser chirpingâ€™â€• Physical Review Accelerators and Beams, 2016, 19, .	1.6	2
98	Staging of laser-plasma accelerators. , 2016, , .		0
99	Laser plasma acceleration using the PW-class BELLA laser. , 2016, , .		0
100	Helium-3 and helium-4 acceleration by high power laser pulses for hadron therapy. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	28
101	Pulse evolution and plasma-wave phase velocity in channel-guided laser-plasma accelerators. Physical Review E, 2015, 92, 023109.	2.1	21
102	Active Plasma Lensing for Relativistic Laser-Plasma-Accelerated Electron Beams. Physical Review Letters, 2015, 115, 184802.	7.8	147
103	Passive and active plasma deceleration for the compact disposal of electron beams. Physics of Plasmas, 2015, 22, .	1.9	14
104	Plasma density diagnostic for capillary-discharge based plasma channels. Physics of Plasmas, 2015, 22, .	1.9	12
105	Enhancement of Maximum Attainable Ion Energy in the Radiation Pressure Acceleration Regime Using a Guiding Structure. Physical Review Letters, 2015, 114, 105003.	7.8	32
106	Plasma Undulator Based on Laser Excitation of Wakefields in a Plasma Channel. Physical Review Letters, 2015, 114, 145003.	7.8	44
107	Generation and pointing stabilization of multi-GeV electron beams from a laser plasma accelerator	1.9	36
108	Emittance control of electron and positron beams in laser plasma accelerators. Proceedings of SPIE, 2015, , .	0.8	1

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109	Multi-GeV experiments with the Petawatt class BELLA laser. , 2015, , .		0
110	Compact quasi-monoenergetic photon sources from laser-plasma accelerators for nuclear detection and characterization. Nuclear Instruments & Methods in Physics Research B, 2015, 350, 116-121.	1.4	56
111	Ultra-low emittance beam generation using two-color ionization injection in laser-plasma accelerators. , 2015, , .		2
112	Detecting radiation reaction at moderate laser intensities. Physical Review E, 2015, 91, 023207.	2.1	14
113	Maximum attainable ion energy in the radiation pressure acceleration regime. Proceedings of SPIE, 2015, , .	0.8	2
114	Eigenmode analysis of a high-gain free-electron laser based on a transverse gradient undulator. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	9
115	Multi-GeV Electron Beams at the BErkeley Lab Laser Accelerator. , 2015, , .		0
116	Staging and Transport of Laser Plasma Accelerators. , 2015, , .		0
117	HiPACE: a quasi-static particle-in-cell code. Plasma Physics and Controlled Fusion, 2014, 56, 084012.	2.1	52
118	Control of focusing fields for positron acceleration in nonlinear plasma wakes using multiple laser modes. Physics of Plasmas, 2014, 21, 120702.	1.9	16
119	Laser plasma acceleration using the PW-class BELLA laser. , 2014, , .		0
120	Quasi-monoenergetic femtosecond photon sources from Thomson Scattering using laser plasma accelerators and plasma channels. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 234013.	1.5	66
121	Thermal emittance from ionization-induced trapping in plasma accelerators. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	37
122	Multi-GeV Electron Beams from Capillary-Discharge-Guided Subpetawatt Laser Pulses in the Self-Trapping Regime. Physical Review Letters, 2014, 113, 245002.	7.8	767
123	Electron injection and emittance control by transverse colliding pulses in a laser-plasma accelerator. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	29
124	Plasma wakefields driven by an incoherent combination of laser pulses: A path towards high-average power laser-plasma accelerators. Physics of Plasmas, 2014, 21, .	1.9	23
125	Measurement of the laser-pulse group velocity in plasma waveguides. Physical Review E, 2014, 89, 063103.	2.1	17
126	Two-Color Laser-Ionization Injection. Physical Review Letters, 2014, 112, 125001.	7.8	96

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127	Numerical investigation of electron self-injection in the nonlinear bubble regime. Physics of Plasmas, 2013, 20, .	1.9	53
128	Beam loading in a laser-plasma accelerator using a near-hollow plasma channel. Physics of Plasmas, 2013, 20, 123115.	1.9	22
129	Laser red shifting based characterization of wakefield excitation in a laser-plasma accelerator. Physics of Plasmas, 2013, 20, .	1.9	29
130	Laser-heater assisted plasma channel formation in capillary discharge waveguides. Physics of Plasmas, 2013, 20, 020703.	1.9	42
131	Coherent seeding of self-modulated plasma wakefield accelerators. Physics of Plasmas, 2013, 20, 056704.	1.9	21
132	Beam hosing instability in overdense plasma. , 2013, , .		0
133	Numerical modeling of laser tunneling ionization in explicit particle-in-cell codes. Journal of Computational Physics, 2013, 236, 220-228.	3.8	56
134	Control of focusing forces and emittances in plasma-based accelerators using near-hollow plasma channels. Physics of Plasmas, 2013, 20, .	1.9	40
135	Low transverse emittance electron bunches from two-color laser-ionization injection. , 2013, , .		2
136	Towards the Experiments on High Field Physics. , 2013, , .		0
137	High-peak-power surface high-harmonic generation at extreme ultra-violet wavelengths from a tape. Journal of Applied Physics, 2013, 114, 043106.	2.5	16
138	Modeling classical and quantum radiation from laser-plasma accelerators. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	54
139	Reply to â€œComment on â€˜Beamstrahlung considerations in laser-plasma-accelerator-based linear collidersâ€™ â€, Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	1
140	Electromagnetic cascade in high-energy electron, positron, and photon interactions with intense laser pulses. Physical Review A, 2013, 87, .	2.5	110
141	Using transverse colliding-pulse injection to obtain electron beams with small emittance in a laser-plasma accelerator. , 2013, , .		2
142	Summary report of Working Group 1: Laser-plasma accelerators. , 2013, , .		0
143	Low noise particle-in-cell simulations of 10 GeV laser-plasma accelerator stages. , 2013, , .		0
144	Virtual detector of synchrotron radiation (VDSR) - A C++ parallel code for particle tracking and radiation calculation. , 2013, , .		1

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145	Self-modulation of long electron beams in plasma at PITZ. , 2013, , .		3
146	Staged laser plasma accelerators. , 2013, , .		0
147	Quasi-matched propagation of high-intensity, ultra-short laser pulses in plasma channels. , 2013, , .		1
148	Long-range persistence of femtosecond modulations on laser-plasma-accelerated electron beams. , 2013, , .		1
149	On the design of experiments to study extreme field limits. , 2013, , .		5
150	Optimized laser pulse profile for efficient radiation pressure acceleration of ions. , 2013, , .		0
151	Low-emittance electron bunches from a laser-plasma accelerator measured using single-shot X-ray spectroscopy. , 2013, , .		0
152	Recent progress on staging laser-plasma accelerators. , 2013, , .		0
153	Injection and staging for laser plasma accelerators. , 2013, , .		0
154	Operational plasma density and laser parameters for future colliders based on laser-plasma accelerators. , 2013, , .		0
155	High-harmonic generation from replenishing solid tapes. , 2013, , .		0
156	On the breaking of a plasma wave in a thermal plasma. II. Electromagnetic wave interaction with the breaking plasma wave. Physics of Plasmas, 2012, 19, 113103.	1.9	17
157	On the breaking of a plasma wave in a thermal plasma. I. The structure of the density singularity. Physics of Plasmas, 2012, 19, .	1.9	22
158	Relativistic spherical plasma waves. Physics of Plasmas, 2012, 19, 020702.	1.9	23
159	Long-Range Persistence of Femtosecond Modulations on Laser-Plasma-Accelerated Electron Beams. Physical Review Letters, 2012, 108, 094801.	7.8	18
160	Demonstration Scheme for a Laser-Plasma-Driven Free-Electron Laser. Physical Review X, 2012, 2, .	8.9	129
161	Low-Emittance Electron Bunches from a Laser-Plasma Accelerator Measured using Single-Shot X-Ray Spectroscopy. Physical Review Letters, 2012, 109, 064802.	7.8	155
162	Ion acceleration from thin foil and extended plasma targets by slow electromagnetic wave and related ion-ion beam instability. Physics of Plasmas, 2012, 19, .	1.9	32

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163	Compact X-ray Free-Electron Laser from a Laser-Plasma Accelerator Using a Transverse-Gradient Undulator. Physical Review Letters, 2012, 109, 204801.	7.8	183
164	Beamstrahlung considerations in laser-plasma-accelerator-based linear colliders. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	40
165	Particle beam self-modulation instability in tapered and inhomogeneous plasma. Physics of Plasmas, 2012, 19, .	1.9	18
166	Optimized laser pulse profile for efficient radiation pressure acceleration of ions. Physics of Plasmas, 2012, 19, 093112.	1.9	29
167	Coupled beam hose and self-modulation instabilities in overdense plasma. Physical Review E, 2012, 86, 026402.	2.1	35
168	Quasi-matched propagation of ultra-short, intense laser pulses in plasma channels. Physics of Plasmas, 2012, 19, 053101.	1.9	44
169	Theory of ionization-induced trapping in laser-plasma accelerators. Physics of Plasmas, 2012, 19, .	1.9	135
170	Modeling of 10 GeV-1 TeV laser-plasma accelerators using Lorentz boosted simulations. Physics of Plasmas, 2011, 18, .	1.9	41
171	Nonlinear Pulse Propagation and Phase Velocity of Laser-Driven Plasma Waves. Physical Review Letters, 2011, 106, 135002.	7.8	52
172	Control of focusing fields in laser-plasma accelerators using higher-order modes. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	44
173	Tunable laser plasma accelerator based on longitudinal density tailoring. Nature Physics, 2011, 7, 862-866.	16.7	291
174	Manipulation of the Laser Properties through Guiding in Plasma Channels. , 2011, , .		0
175	Group velocity and pulse lengthening of mismatched laser pulses in plasma channels. Physics of Plasmas, 2011, 18, .	1.9	22
176	Simulation of free-electron lasers seeded with broadband radiation. Physical Review Special Topics: Accelerators and Beams, 2011, 14, .	1.8	6
177	Growth and Phase Velocity of Self-Modulated Beam-Driven Plasma Waves. Physical Review Letters, 2011, 107, 145002.	7.8	65
178	Undulator-Based Laser Wakefield Accelerator Electron Beam Energy Spread and Emittance Diagnostic. , 2010, , .		1
179	Laser-Plasma Wakefield Acceleration with Higher Order Laser Modes. , 2010, , .		1
180	Design and Interpretation of Colliding Pulse Injected Laser-Plasma Acceleration Experiments. , 2010, , .		2

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181	Transport and Non-Invasive Position Detection of Electron Beams from Laser-Plasma Accelerators. , 2010, , .		2
182	Efficient Modeling of Laser-Plasma Accelerators with INF&RNO. AIP Conference Proceedings, 2010, , .	0.4	36
183	The BErkeley Lab Laser Accelerator (BELLA): A 10 GeV Laser Plasma Accelerator. , 2010, , .		41
184	Colliding Laser Pulses for Laser-Plasma Accelerator Injection Control. , 2010, , .		3
185	Wavefront Measurement for Laser-Guiding Diagnostic. , 2010, , .		0
186	Electron Injection in Laser Plasma Accelerators by High-Order Field Ionization. , 2010, , .		0
187	Ultrafast Diagnostics for Electron Beams from Laser Plasma Accelerators. , 2010, , .		0
188	Plasma Channel Diagnostic Based on Laser Centroid Oscillations. , 2010, , .		0
189	Design Considerations for Plasma Accelerators Driven by Lasers or Particle Beams. , 2010, , .		0
190	Plasma channel diagnostic based on laser centroid oscillations. Physics of Plasmas, 2010, 17, 056706.	1.9	26
191	Physics considerations for laser-plasma linear colliders. Physical Review Special Topics: Accelerators and Beams, 2010, 13, .	1.8	242
192	Tapered plasma channels to phase-lock accelerating and focusing forces in laser-plasma accelerators. Physics of Plasmas, 2010, 17, .	1.9	57
193	Relativistic warm plasma theory of nonlinear laser-driven electron plasma waves. Physical Review E, 2010, 81, 056403.	2.1	21
194	Spectroscopy of betatron radiation emitted from laser-produced wakefield accelerated electrons. Review of Scientific Instruments, 2010, 81, 10E325.	1.3	17
195	Analysis of Capillary Guided Laser Plasma Accelerator Experiments at LBNL. , 2009, , .		0
196	Free-electron laser driven by the LBNL laser-plasma accelerator. , 2009, , .		6
197	Development of High Gradient Laser Wakefield Accelerators Towards Nuclear Detection Applications at LBNL. , 2009, , .		2
198	High-Field, Î¼J-Class THz Pulses from a Laser Wakefield Accelerator. , 2009, , .		0

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199	Staging Laser Plasma Accelerators for Increased Beam Energy. , 2009, , .		3
200	Magnetic Characterization and Design of an Undulator-Based Electron Beam Diagnostic. , 2009, , .		0
201	Physical Fidelity in Particle-In-Cell Modeling of Small Debye-Length Plasmas. , 2009, , .		4
202	Design considerations for a laser-plasma linear collider. , 2009, , .		8
203	Laser wakefield simulation using a speed-of-light frame envelope model. , 2009, , .		4
204	Plasma gradient controlled injection and postacceleration of high quality electron bunches. , 2009, , .		1
205	Optimization of THz Radiation Generation from a Laser Wakefield Accelerator. , 2009, , .		0
206	Space-charge effects in ultrahigh current electron bunches generated by laser-plasma accelerators. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	20
207	Physics of laser-driven plasma-based electron accelerators. Reviews of Modern Physics, 2009, 81, 1229-1285.	45.6	1,989
208	New Developments in the Simulation of Advanced Accelerator Concepts. , 2009, , .		5
209	Nonlinear laser energy depletion in laser-plasma accelerators. Physics of Plasmas, 2009, 16, .	1.9	62
210	Scaled simulations of a 10 GeV accelerator. , 2009, , .		11
211	Relativistic warm plasma theory of nonlinear laser-driven electron plasma waves. Journal of Physics: Conference Series, 2009, 169, 012007.	0.4	3
212	Unphysical kinetic effects in particle-in-cell modeling of laser wakefield accelerators. Physical Review E, 2008, 78, 016404.	2.1	41
213	Computational studies and optimization of wakefield accelerators. Journal of Physics: Conference Series, 2008, 125, 012002.	0.4	13
214	Plasma-Density-Gradient Injection of Low Absolute-Momentum-Spread Electron Bunches. Physical Review Letters, 2008, 100, 215004.	7.8	315
215	High-harmonic generation in cavitated plasmas. Physics of Plasmas, 2008, 15, 056704.	1.9	8
216	Betatron radiation from density tailored plasmas. Physics of Plasmas, 2008, 15, .	1.9	40

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